

**Photocontrôle et optogénétique des systèmes et fonctions biologiques**  
**Photocontrol and optogenetic of biological systems and functions**

**10-12 septembre 2012 ■ Bordeaux, France**

**Lundi 10 septembre 2012 ■ Monday 10th of September 2012**

13h00-14h00	<b>Accueil des participants / Reception of participants</b>
<b>SESSION I</b>	<b>Titre : Actuators and Molecules for Photocontrol</b>
14h00-14h15	Introduction to the session <b>Ludovic Jullien</b> , ENS/UPMC, Paris
14h15-15h00	Generalities about caged molecules <b>Ludovic Jullien</b> , ENS/UPMC, Paris
15h00-15h45	One and two photon photolysis of caged neurotransmitters <b>David Ogden</b> , René Descartes University, Paris
15h45-16h15	<b>Pause-café / Coffee break</b>
16h15-17h00	Optical control of glutamate receptor signaling in the nervous system <b>Ehud Isacoff</b> , Berkeley University, USA
17h00-18h00	Poster flash presentations
18:00 – 19:30	Poster session
20:00	<b>Dîner / Dinner</b>

**Mardi 11 septembre 2012 ■ Tuesday 11th of September 2012**

07:30 – 09:00	<b>Petit-déjeuner / Breakfast</b>
9h00-9h45	Photochemical genetics <b>Alexander Deiters</b> (NC State University)
9h45-10h30	Genetically-encoded reporting probes <b>Ludovic Tricoire</b> , UPMC, Paris
10h30-11h00	<b>Pause-café / Coffee break</b>
<b>SESSION II</b>	<b>Titre : Optical Methods for Single- and Two-Photon Patterned Photo-activation</b>
11h00-11h15	Introduction to the session <b>Valentina Emiliani</b> , Université René Descartes, Paris
11h15-12h00	Fast multisite optical recordings and stimulations with acousto-optic deflectors. <b>Stéphane Dieudonné</b> , ENS, Paris
12h00-12h45	Using DMD based pattern light stimulation approach to study neuronal circuits underlying olfaction circuits in the mammalian olfactory bulb <b>Florin Albeanu</b> , Cold spring Harbor Lab, NY, USA
12:45- 14:15	<b>Déjeuner / Lunch</b>
14h15-15h00	Holographic patterned photostimulation <b>Shy Shoam</b> , Technion, Haifa, Israel
15h00-15h45	Two photon optogenetics <b>Valentina Emiliani</b> , Université René Descartes, Paris TBA
15h45-16h30	<b>Pause / Coffee Break</b>

16h30-17h00	Patterned two-photon uncaging <b>Michael Hausser</b> , UCL, London, UK
17h00-17h45	Holographic photostimulation to triggers inspiratory burst generation in the neural circuit controlling mammalian respiratory rhythm in vitro <b>Jack Feldmann</b> , UCLA, Los Angeles, USA
17h45 – 18h45	Round-table
20:00- 22:30	Cocktail and dinner

**Mercredi 12 septembre 2012 ▣ Wednesday 12th of September 2012**

07:30 – 09:00	Petit-déjeuner / <b>Breakfast</b>
<b>SESSION III</b>	<b>Titre : <i>In vitro</i> and <i>in vivo</i> biological applications (from the perturbation to the probe)</b>
9h00-9h15	Introduction to the session <b>Matthieu Coppey</b> , IBENS-LKB, ENS, Paris
9h15-10h00	Optogenetics to probe and manipulate the architecture of the cell <b>Matthieu Coppey</b> , IBENS-LKB, ENS, Paris
10h00-10h45	Next generation optogenetic tools for real-time control of living cells <b>Jeff Tabor</b> (Rice University)
10:45 – 11:15	Pause-café / <b>Coffee break</b>
11h15-12h00	Conditional control of protein activity using light-induced dimerizers <b>Chandra Tucker</b> , UCSM, Denver, USA
12h00-12h45	Cell signaling <b>Anselm Levskaya</b> (Stanford)
12:45- 14:00	Déjeuner / <b>Lunch</b>
14:00	Departure